## AMENDMENTS TO THE CLAIMS

(Currently Amended) An electron gun of the in-line type, comprising;
cathodes (2)-for emitting electrons, which said cathodes are juxtaposed in a first direction, and

a main lens section (4) comprising at least two electrodes (10,11,12), whereby a gap is provided between adjacent ones of the electrodes, and a gap-facing end of an at least one of the electrodes comprising an electrode rim, characterized in that at least a selected one of the electrodes (10,11,12) comprises a plate-shaped element (14,19) arranged inside the selected electrode, said element being provided with a common aperture for passing electrons from each cathode, a dimension of said aperture to a second direction being smaller than a cross-section diameter of said rim in the second direction, the second direction being perpendicular to both the first direction and a central axis of the electron gun.

- 2. (Currently Amended) An Eelectron gun according to claim 1, wherein, for said at least one of the electrodes (10,11,12), a distance along the central axis from the gap to the plate-shaped element (14,19) is smaller than the dimension of said aperture in the second direction.
- 3. (Currently Amended) An Eelectron gun according to claim 1, wherein the electrodes of the mate lens section each comprise at least one plate-shaped element arranged on the inside of the electrode, said plate-shaped element being one of
- a first type of plate-shaped element (14,19) being provided with a common aperture for passing electrons from each cathode, and
- a second type of plate-shaped element (15,16,18) being provided with a number of apertures, each aperture corresponding to a cathode for passing electrons from said cathode only,

wherein said plate-shaped element in said at least one of the electrodes (20,21, 22) is a plate-shaped element of the first type.

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4. (Currently Amended) An Eelectron gun according to claim 3, wherein the main lens section comprises two electrodes (41,43) defining, in operation, a bi-potential main lens,

wherein an electrode (41) receiving a lower voltage (Vdyn) is provided with a plate-shaped element of the second type (42), and an electrode (43) receiving a higher voltage (Va) is provided with a plate-shaped element of the first type.

5. (Currently Amended) An Eelectron gun according to claim 3, wherein the main lens section comprises three electrodes (10,11, 12) defining, in operation, a Dynamic Composes Field Lens (DCFL)-type main lens,

wherein an electrode (10) receiving a lower voltage (Vdyn) is provided with a plate-shaped element of the first type (14),

an electrode (11)-receiving an intermediate voltage (Vi) is provided with a plateshaped element (16)-of the second type, and

an electrode (12) receiving a higher voltage (Va) is provided with a plate-shaped element (19) of the first type.

- 6. (Currently Amended) An Eelectron gun according to claim 4-or 5, wherein an electrode provided with a plate-shaped element of the first type does not include a plate-shaped element of the second type.
- 7. (Currently Amended) <u>An Ee</u>lectron gun according to claim 1, wherein the aperture in the plate-shaped element (70) of said at least one of the electrodes is barrel-shaped.
- 8. (Currently Amended) An Eelectron gun according to claim 3, wherein the aperture in the plate-shaped element (70) of the first type is barrel-shaped.
- 9. (Currently Amended) An Eelectron gun according to claim 1, wherein a dimension of the aperture in the first direction is at least 75 % of a cross-section diameter of the electrode rim in the first direction.

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10. (Currently Amended) <u>An Ee</u>lectron gun according to claim 1, wherein a dimension of the aperture in the second direction is at least 25% of a largest cross-section <u>diameter</u> of the electrode rim in the second direction.